NBW

Improvements to roads and drains of BB Nagara in ward no. 8 kodigehalli

Second and Final Bill

Quality Control Reports

BOOK NO - 02

CIVIL PRO
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Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains of B.B.Nagara in ward no. 8 Kodigehalli

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (200mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M20)	Compressive Strength(7days and 28days)	7 set /151-200 cum	154.18	14	14
9	RMC(M20)	Compressive Strength(7days and 28days)	6 set /100-150 cum	108.95	12	12

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2021-03-13-19** **Date: 13-03-21**

Project Name : Improvements to Roads and Drains of B.B.Nagara in ward no. 8 Kodigehalli

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/156/2019-20

Date of Receipt : 10-03-21

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 10-03-21

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.4	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2021-03-13-19
		Date: 07-04-21
Project Name	:	Improvements to Roads and Drains of B.B.Nagara in ward no. 8 Kodigehalli
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/156/2019-20
Date of Receipt	:	10-03-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	10-03-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.0N/mm^2	Not less than 53 N/mm^2

*The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2021-03-13-19 Date: 13-03-21
Project Name	:	Improvements to Roads and Drains of B.B.Nagara in ward no. 8 Kodigehalli
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer Reference	:	BBMP/EE/BTP/WO/156/2019-20
Date of Receipt	:	10-03-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-03-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	236	236	4.7	95.3	90-100
3	10 mm	2471	2707	54.1	45.9	25-55
4	4.75 mm	2134	4841	96.8	3.2	0-10
5	Pan	159	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-03-13-19** **Date: 13-03-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.55	_
5	Bulk Density(Compacted) (Kg/l)	1.59	_
6	Water Absorption(%)	0.23	_
7	Aggregate crushing Value(%)	24.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.9	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-03-13-19** **Date: 13-03-21**

Project Name : Improvements to Roads and Drains of B.B.Nagara in ward no. 8 Kodigehalli

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/156/2019-20

Date of Receipt : 10-03-21

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 10-03-21

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	28	28	2.8	97.2	90-100	90-100	90-100	95-100
3	2.36 mm	56	84	8.4	91.6	60-95	75-100	85-100	95-100
4	1.18 mm	238	322	32.2	67.8	30-70	55-90	75-100	90-100
5	600 micron	206	528	52.8	47.2	15-34	35-59	60-79	80-100
6	300 micron	204	732	73.2	26.8	5-20	8-30	12-40	15-50
7	150 micron	192	924	92.4	7.6	0-10	0-10	0-10	0-15
8	Pan	76	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2021-03-13-19 Date: 13-03-21

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.6	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	6.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
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TEST RESULTS OF STEEL

Lab ID : CP-2021-03-13-19 **Date: 12-03-21**

Project Name : Improvements to Roads and Drains of B.B.Nagara in ward no. 8 Kodigehalli

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/156/2019-20

Date of Receipt : 10-03-21

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 10-03-21

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	16	1.581	572	674	19.0%	Satisfactory	Satisfactory

The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2021-03-13-19** **Date: 14-04-21**

Project Name : Improvements to Roads and Drains of B.B.Nagara in ward no. 8 Kodigehalli

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/156/2019-20

Date of Receipt : 10-04-21

Sample Type /Size : Precast Cover Slab (100mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 10/04/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2021-03-13-19** **Date: 14-04-21**

Project Name : Improvements to Roads and Drains of B.B.Nagara in ward no. 8 Kodigehalli

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/156/2019-20

Date of Receipt : 10-04-21

Sample Type /Size : Precast Cover Slab (200mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 10/04/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	175.51	200.48	2.116	24189	560.9	23.2	21.6	27.0
2	Cover Slab-2	175.49	200.52	2.122	24183	565.6	23.4	21.8	27.2
3	Cover Slab-3	175.50	200.51	2.118	24186	563.9	23.3	21.7	27.1

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-13-19**

Date: 07/04/2021

Project Name : Improvements to Roads and Drains of B.B.Nagara in ward no. 8 Kodigehalli

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/156/2019-20

Date of Receipt : 02-04-21

Customer ID : Drain Bottom Slab Concrete, (Danalakshmi floor mill road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete, (Danalakshmi floor mill road)	M20	31/03/2021	07/04/2021	150.37 X 150.95 X 149.50	22698	**8.133**	430.7	19.0	18.6
2	Drain Bottom Slab Concrete, (Danalakshmi floor mill road)	M20	31/03/2021	07/04/2021	151.89 X 149.95 X 150.82	22776	**8.059**	414.5	18.2	
3	Drain Bottom Slab Concrete, (Danalakshmi floor mill road)	M20	31/03/2021	07/04/2021	150.76 X 151.89 X 151.95	22898	**8.942**	428.5	18.7	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-13-19** **Date: 28/04/2021**

Project Name : Improvements to Roads and Drains of B.B.Nagara in ward no. 8 Kodigehalli

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/156/2019-20

Date of Receipt : 02-04-21

Customer ID : Drain Bottom Slab Concrete, (Danalakshmi floor mill road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete, (Danalakshmi floor mill road)	M20	31/03/2021	28/04/2021	151.47 X 150.77 X 151.95	22836	**8.208**	533.1	23.3	23.2
2	Drain Bottom Slab Concrete, (Danalakshmi floor mill road)	M20	31/03/2021	28/04/2021	150.53 X 151.63 X 149.49	22825	**8.361**	514.5	22.5	
3	Drain Bottom Slab Concrete, (Danalakshmi floor mill road)	M20	31/03/2021	28/04/2021	150.09 X 151.15 X 149.74	22685	**8.806**	537.7	23.7	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-13-19** **Date: 08/04/2021**

Project Name : Improvements to Roads and Drains of B.B.Nagara in ward no. 8 Kodigehalli

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/156/2019-20

Date of Receipt : 03-04-21

Customer ID : Drain Bottom Slab Concrete, (1st cross road BB Nagar)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete, (1st cross road BB Nagar)	M20	01/04/2021	08/04/2021	149.13 X 149.19 X 151.03	22249	**8.133**	406.8	18.3	18.5
2	Drain Bottom Slab Concrete, (1st cross road BB Nagar)	M20	01/04/2021	08/04/2021	149.71 X 151.87 X 151.08	22737	**8.059**	428.0	18.8	
3	Drain Bottom Slab Concrete, (1st cross road BB Nagar)	M20	01/04/2021	08/04/2021	150.20 X 150.82 X 150.00	22652	**8.942**	416.7	18.4	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
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BBMP, Bangalore

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-13-19** **Date: 29/04/2021**

Project Name : Improvements to Roads and Drains of B.B.Nagara in ward no. 8 Kodigehalli

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/156/2019-20

Date of Receipt : 03-04-21

Customer ID : Drain Bottom Slab Concrete, (1st cross road BB Nagar)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete, (1st cross road BB Nagar)	M20	01/04/2021	29/04/2021	149.84 X 149.81 X 150.61	22449	**8.208**	532.5	23.7	23.2
2	Drain Bottom Slab Concrete, (1st cross road BB Nagar)	M20	01/04/2021	29/04/2021	150.63 X 151.97 X 149.37	22891	**8.361**	516.9	22.6	
3	Drain Bottom Slab Concrete, (1st cross road BB Nagar)	M20	01/04/2021	29/04/2021	150.67 X 149.31 X 150.05	22495	**8.806**	521.2	23.2	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
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WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-13-19** **Date: 16/04/2021**

Project Name : Improvements to Roads and Drains of B.B.Nagara in ward no. 8 Kodigehalli

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/156/2019-20

Date of Receipt : 12-04-21

Customer ID : Drain Side Wall Concrete, (Amco Layout-3rd Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete, (Amco Layout-3rd Cross Road)	M20	09/04/2021	16/04/2021	151.43 X 151.50 X 151.91	22943	**8.133**	429.0	18.7	18.5
2	Drain Side Wall Concrete, (Amco Layout-3rd Cross Road)	M20	09/04/2021	16/04/2021	149.40 X 150.57 X 150.64	22495	**8.059**	413.7	18.4	
3	Drain Side Wall Concrete, (Amco Layout-3rd Cross Road)	M20	09/04/2021	16/04/2021	150.17 X 151.88 X 149.17	22808	**8.942**	421.6	18.5	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-13-19** **Date: 07/05/2021**

Project Name : Improvements to Roads and Drains of B.B.Nagara in ward no. 8 Kodigehalli

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/156/2019-20

Date of Receipt : 12-04-21

Customer ID : Drain Side Wall Concrete, (Amco Layout-3rd Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete, (Amco Layout-3rd Cross Road)	M20	09/04/2021	07/05/2021	149.38 X 151.50 X 150.32	22631	**8.208**	535.1	23.6	23.4
2	Drain Side Wall Concrete, (Amco Layout-3rd Cross Road)	M20	09/04/2021	07/05/2021	150.58 X 149.58 X 151.06	22523	**8.361**	507.2	22.5	
3	Drain Side Wall Concrete, (Amco Layout-3rd Cross Road)	M20	09/04/2021	07/05/2021	149.09 X 151.99 X 149.99	22660	**8.806**	541.9	23.9	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-13-19** **Date: 19/04/2021**

Project Name : Improvements to Roads and Drains of B.B.Nagara in ward no. 8 Kodigehalli

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/156/2019-20

Date of Receipt : 14-04-21

Customer ID : Drain Side Wall Concrete, (Amco Layout-3rd Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete, (Amco Layout-3rd Cross Road)	M20	12/04/2021	19/04/2021	149.51 X 151.82 X 150.72	22698	**8.133**	410.7	18.1	18.2
2	Drain Side Wall Concrete, (Amco Layout-3rd Cross Road)	M20	12/04/2021	19/04/2021	151.55 X 150.95 X 150.74	22876	**8.059**	420.2	18.4	
3	Drain Side Wall Concrete, (Amco Layout-3rd Cross Road)	M20	12/04/2021	19/04/2021	150.17 X 149.84 X 149.80	22501	**8.942**	409.6	18.2	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-13-19** **Date: 10/05/2021**

Project Name : Improvements to Roads and Drains of B.B.Nagara in ward no. 8 Kodigehalli

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/156/2019-20

Date of Receipt : 14-04-21

Customer ID : Drain Side Wall Concrete, (Amco Layout-3rd Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete, (Amco Layout-3rd Cross Road)	M20	12/04/2021	10/05/2021	150.66 X 151.39 X 150.02	22808	**8.208**	542.2	23.8	23.5
2	Drain Side Wall Concrete, (Amco Layout-3rd Cross Road)	M20	12/04/2021	10/05/2021	150.19 X 151.73 X 150.00	22788	**8.361**	521.4	22.9	
3	Drain Side Wall Concrete, (Amco Layout-3rd Cross Road)	M20	12/04/2021	10/05/2021	149.72 X 150.61 X 150.75	22548	**8.806**	537.6	23.8	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-13-19** **Date: 19/04/2021**

Project Name : Improvements to Roads and Drains of B.B.Nagara in ward no. 8 Kodigehalli

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/156/2019-20

Date of Receipt : 14-04-21

Customer ID : Drain Side Wall Concrete, (Amco Layout-3rd Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete, (Amco Layout-3rd Cross Road)	M20	12/04/2021	19/04/2021	151.18 X 150.27 X 151.73	22718	**8.133**	417.2	18.4	18.4
2	Drain Side Wall Concrete, (Amco Layout-3rd Cross Road)	M20	12/04/2021	19/04/2021	150.21 X 150.71 X 149.94	22637	**8.059**	414.0	18.3	
3	Drain Side Wall Concrete, (Amco Layout-3rd Cross Road)	M20	12/04/2021	19/04/2021	150.80 X 149.93 X 149.51	22608	**8.942**	421.0	18.6	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-13-19** **Date: 10/05/2021**

Project Name : Improvements to Roads and Drains of B.B.Nagara in ward no. 8 Kodigehalli

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/156/2019-20

Date of Receipt : 14-04-21

Customer ID : Drain Side Wall Concrete, (Amco Layout-3rd Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete, (Amco Layout-3rd Cross Road)	M20	12/04/2021	10/05/2021	150.34 X 150.94 X 149.77	22692	**8.208**	544.4	24.0	23.3
2	Drain Side Wall Concrete, (Amco Layout-3rd Cross Road)	M20	12/04/2021	10/05/2021	149.34 X 150.14 X 151.79	22422	**8.361**	510.0	22.7	
3	Drain Side Wall Concrete, (Amco Layout-3rd Cross Road)	M20	12/04/2021	10/05/2021	150.96 X 151.99 X 151.64	22944	**8.806**	529.3	23.1	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-13-19** **Date: 09/04/2021**

Project Name : Improvements to Roads and Drains of B.B.Nagara in ward no. 8 Kodigehalli

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/156/2019-20

Date of Receipt : 05-04-21

Customer ID : Culvert Bottom Slab Concrete, (1st cross road BB Nagar)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete, (1st cross road BB Nagar)	M20	02/04/2021	09/04/2021	149.24 X 150.61 X 150.96	22477	**8.133**	420.9	18.7	18.6
2	Culvert Bottom Slab Concrete, (1st cross road BB Nagar)	M20	02/04/2021	09/04/2021	149.40 X 149.72 X 149.10	22369	**8.059**	410.8	18.4	
3	Culvert Bottom Slab Concrete, (1st cross road BB Nagar)	M20	02/04/2021	09/04/2021	151.86 X 151.02 X 150.05	22934	**8.942**	430.1	18.8	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-13-19** **Date: 30/04/2021**

Project Name : Improvements to Roads and Drains of B.B.Nagara in ward no. 8 Kodigehalli

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/156/2019-20

Date of Receipt : 05-04-21

Customer ID : Culvert Bottom Slab Concrete, (1st cross road BB Nagar)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete, (1st cross road BB Nagar)	M20	02/04/2021	30/04/2021	150.03 X 151.42 X 151.49	22717	**8.208**	541.4	23.8	23.1
2	Culvert Bottom Slab Concrete, (1st cross road BB Nagar)	M20	02/04/2021	30/04/2021	150.32 X 150.52 X 149.36	22626	**8.361**	501.1	22.1	
3	Culvert Bottom Slab Concrete, (1st cross road BB Nagar)	M20	02/04/2021	30/04/2021	151.77 X 149.10 X 149.35	22628	**8.806**	528.7	23.4	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-13-19** **Date: 19/04/2021**

Project Name : Improvements to Roads and Drains of B.B.Nagara in ward no. 8 Kodigehalli

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/156/2019-20

Date of Receipt : 14-04-21

Customer ID : Culvert Side Wall Concrete, (1st cross road BB Nagar)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete, (1st cross road BB Nagar)	M20	12/04/2021	19/04/2021	149.20 X 150.03 X 151.24	22385	**8.133**	419.9	18.8	18.6
2	Culvert Side Wall Concrete, (1st cross road BB Nagar)	M20	12/04/2021	19/04/2021	150.22 X 151.24 X 149.14	22719	**8.059**	411.9	18.1	
3	Culvert Side Wall Concrete, (1st cross road BB Nagar)	M20	12/04/2021	19/04/2021	149.81 X 151.75 X 151.66	22734	**8.942**	429.0	18.9	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-13-19** **Date: 10/05/2021**

Project Name : Improvements to Roads and Drains of B.B.Nagara in ward no. 8 Kodigehalli

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/156/2019-20

Date of Receipt : 14-04-21

Customer ID : Culvert Side Wall Concrete, (1st cross road BB Nagar)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete, (1st cross road BB Nagar)	M20	12/04/2021	10/05/2021	151.41 X 150.63 X 151.10	22806	**8.208**	534.5	23.4	23.2
2	Culvert Side Wall Concrete, (1st cross road BB Nagar)	M20	12/04/2021	10/05/2021	151.03 X 149.52 X 150.22	22583	**8.361**	518.2	22.9	
3	Culvert Side Wall Concrete, (1st cross road BB Nagar)	M20	12/04/2021	10/05/2021	151.34 X 149.72 X 150.01	22658	**8.806**	524.5	23.1	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
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****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-13-19**

Date: 15/04/2021

Project Name : Improvements to Roads and Drains of B.B.Nagara in ward no. 8 Kodigehalli

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/156/2019-20

Date of Receipt : 10-04-21

Customer ID : Road Concrete, (1st cross road BB Nagar)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Road Concrete, (1st cross road BB Nagar)	M20	08/04/2021	15/04/2021	149.52 X 149.07 X 149.83	22289	**8.133**	421.1	18.9	18.5
2	Road Concrete, (1st cross road BB Nagar)	M20	08/04/2021	15/04/2021	150.06 X 149.65 X 149.12	22456	**8.059**	414.6	18.5	
3	Road Concrete, (1st cross road BB Nagar)	M20	08/04/2021	15/04/2021	151.52 X 151.93 X 151.82	23022	**8.942**	420.2	18.3	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/05/2021

Lab ID : CP-2021-03-13-19

Project Name : Improvements to Roads and Drains of B.B.Nagara in ward no. 8 Kodigehalli

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/156/2019-20

Date of Receipt : 10-04-21

Customer ID : Road Concrete, (1st cross road BB Nagar)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Road Concrete, (1st cross road BB Nagar)	M20	08/04/2021	06/05/2021	149.39 X 149.36 X 150.74	22314	**8.208**	524.8	23.5	23.1
2	Road Concrete, (1st cross road BB Nagar)	M20	08/04/2021	06/05/2021	150.38 X 151.37 X 151.16	22763	**8.361**	512.6	22.5	
3	Road Concrete, (1st cross road BB Nagar)	M20	08/04/2021	06/05/2021	149.31 X 149.25 X 149.84	22285	**8.806**	516.9	23.2	

*The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-13-19** **Date: 15/04/2021**

Project Name : Improvements to Roads and Drains of B.B.Nagara in ward no. 8 Kodigehalli

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/156/2019-20

Date of Receipt : 10-04-21

Customer ID : Road Concrete, (1st cross road BB Nagar)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Road Concrete, (1st cross road BB Nagar)	M20	08/04/2021	15/04/2021	150.20 X 149.91 X 151.65	22516	**8.133**	420.1	18.7	18.6
2	Road Concrete, (1st cross road BB Nagar)	M20	08/04/2021	15/04/2021	150.23 X 150.07 X 149.79	22545	**8.059**	422.6	18.7	
3	Road Concrete, (1st cross road BB Nagar)	M20	08/04/2021	15/04/2021	151.28 X 150.09 X 150.79	22706	**8.942**	416.9	18.4	

*The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-13-19** **Date: 06/05/2021**

Project Name : Improvements to Roads and Drains of B.B.Nagara in ward no. 8 Kodigehalli

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/156/2019-20

Date of Receipt : 10-04-21

Customer ID : Road Concrete, (1st cross road BB Nagar)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Road Concrete, (1st cross road BB Nagar)	M20	08/04/2021	06/05/2021	150.75 X 151.30 X 149.88	22809	**8.208**	546.6	24.0	23.4
2	Road Concrete, (1st cross road BB Nagar)	M20	08/04/2021	06/05/2021	149.91 X 149.53 X 149.79	22416	**8.361**	499.9	22.3	
3	Road Concrete, (1st cross road BB Nagar)	M20	08/04/2021	06/05/2021	151.07 X 151.28 X 151.74	22854	**8.806**	545.9	23.9	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-13-19** **Date: 15/04/2021**

Project Name : Improvements to Roads and Drains of B.B.Nagara in ward no. 8 Kodigehalli

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/156/2019-20

Date of Receipt : 10-04-21

Customer ID : Road Concrete, (1st cross road BB Nagar)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Road Concrete, (1st cross road BB Nagar)	M20	08/04/2021	15/04/2021	151.20 X 151.86 X 151.30	22961	**8.133**	428.4	18.7	18.5
2	Road Concrete, (1st cross road BB Nagar)	M20	08/04/2021	15/04/2021	150.30 X 151.11 X 149.65	22712	**8.059**	420.0	18.5	
3	Road Concrete, (1st cross road BB Nagar)	M20	08/04/2021	15/04/2021	149.75 X 149.80 X 149.81	22434	**8.942**	414.1	18.5	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-13-19** **Date: 06/05/2021**

Project Name : Improvements to Roads and Drains of B.B.Nagara in ward no. 8 Kodigehalli

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/156/2019-20

Date of Receipt : 10-04-21

Customer ID : Road Concrete, (1st cross road BB Nagar)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Road Concrete, (1st cross road BB Nagar)	M20	08/04/2021	06/05/2021	149.96 X 150.26 X 149.88	22533	**8.208**	531.0	23.6	23.1
2	Road Concrete, (1st cross road BB Nagar)	M20	08/04/2021	06/05/2021	150.12 X 150.42 X 149.64	22581	**8.361**	505.6	22.4	
3	Road Concrete, (1st cross road BB Nagar)	M20	08/04/2021	06/05/2021	151.84 X 151.25 X 149.86	22964	**8.806**	537.3	23.4	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-13-19** **Date: 16/04/2021**

Project Name : Improvements to Roads and Drains of B.B.Nagara in ward no. 8 Kodigehalli

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/156/2019-20

Date of Receipt : 12-04-21

Customer ID : Road Concrete, (Shre Lakshmi Narasihma prasana road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Road Concrete, (Shre Lakshmi Narasihma prasana road)	M20	09/04/2021	16/04/2021	150.15 X 151.96 X 151.35	22816	**8.133**	416.9	18.3	18.2
2	Road Concrete, (Shre Lakshmi Narasihma prasana road)	M20	09/04/2021	16/04/2021	150.84 X 151.66 X 150.41	22877	**8.059**	415.6	18.2	
3	Road Concrete, (Shre Lakshmi Narasihma prasana road)	M20	09/04/2021	16/04/2021	149.11 X 149.65 X 149.17	22315	**8.942**	406.1	18.2	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
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BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-13-19** **Date: 07/05/2021**

Project Name : Improvements to Roads and Drains of B.B.Nagara in ward no. 8 Kodigehalli

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/156/2019-20

Date of Receipt : 12-04-21

Customer ID : Road Concrete, (Shre Lakshmi Narasihma prasana road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Road Concrete, (Shre Lakshmi Narasihma prasana road)	M20	09/04/2021	07/05/2021	151.51 X 151.72 X 149.90	22988	**8.208**	547.7	23.8	23.2
2	Road Concrete, (Shre Laksimi Narasihma prasana road)	M20	09/04/2021	07/05/2021	151.00 X 150.53 X 149.07	22730	**8.361**	504.1	22.2	
3	Road Concrete, (Shre Lakshmi Narasihma prasana road)	M20	09/04/2021	07/05/2021	149.45 X 149.44 X 151.52	22334	**8.806**	524.8	23.5	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-13-19** **Date: 16/04/2021**

Project Name : Improvements to Roads and Drains of B.B.Nagara in ward no. 8 Kodigehalli

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/156/2019-20

Date of Receipt : 12-04-21

Customer ID : Road Concrete, (Narasimha swamy nilaya road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Road Concrete, (Narasimha swamy nilaya road)	M20	09/04/2021	16/04/2021	151.65 X 151.26 X 149.15	22938	**8.133**	431.3	18.8	18.3
2	Road Concrete, (Narasimha swamy nilaya road)	M20	09/04/2021	16/04/2021	150.73 X 149.94 X 149.02	22601	**8.059**	408.3	18.1	
3	Road Concrete, (Narasimha swamy nilaya road)	M20	09/04/2021	16/04/2021	149.47 X 151.06 X 150.64	22578	**8.942**	407.4	18.0	

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-13-19** **Date: 07/05/2021**

Project Name : Improvements to Roads and Drains of B.B.Nagara in ward no. 8 Kodigehalli

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/156/2019-20

Date of Receipt : 12-04-21

Customer ID : Road Concrete, (Narasimha swamy nilaya road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Road Concrete, (Narasimha swamy nilaya road)	M20	09/04/2021	07/05/2021	149.18 X 151.62 X 150.75	22619	**8.208**	530.8	23.5	23.2
2	Road Concrete, (Narasimha swamy nilaya road)	M20	09/04/2021	07/05/2021	149.49 X 151.74 X 151.70	22684	**8.361**	503.1	22.2	
3	Road Concrete, (Narasimha swamy nilaya road)	M20	09/04/2021	07/05/2021	149.05 X 150.26 X 151.13	22397	**8.806**	536.6	24.0	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-13-19** **Date: 16/04/2021**

Project Name : Improvements to Roads and Drains of B.B.Nagara in ward no. 8 Kodigehalli

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/156/2019-20

Date of Receipt : 12-04-21

Customer ID : Road Concrete, (Narasimha swamy nilaya road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Road Concrete, (Narasimha swamy nilaya road)	M20	09/04/2021	16/04/2021	150.84 X 150.11 X 150.96	22643	**8.133**	411.7	18.2	18.6
2	Road Concrete, (Narasimha swamy nilaya road)	M20	09/04/2021	16/04/2021	149.52 X 151.93 X 149.76	22716	**8.059**	426.8	18.8	
3	Road Concrete, (Narasimha swamy nilaya road)	M20	09/04/2021	16/04/2021	150.35 X 149.33 X 151.05	22452	**8.942**	425.7	19.0	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-13-19** **Date: 07/05/2021**

Project Name : Improvements to Roads and Drains of B.B.Nagara in ward no. 8 Kodigehalli

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/156/2019-20

Date of Receipt : 12-04-21

Customer ID : Road Concrete, (Narasimha swamy nilaya road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Road Concrete, (Narasimha swamy nilaya road)	M20	09/04/2021	07/05/2021	151.61 X 151.45 X 150.60	22961	**8.208**	528.5	23.0	22.9
2	Road Concrete, (Narasimha swamy nilaya road)	M20	09/04/2021	07/05/2021	150.67 X 149.00 X 151.50	22450	**8.361**	500.8	22.3	
3	Road Concrete, (Narasimha swamy nilaya road)	M20	09/04/2021	07/05/2021	149.02 X 150.45 X 149.91	22420	**8.806**	526.8	23.5	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
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